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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
•	10/574,050	03/29/2006	Patrice Belvegue	12928/10028	7835	
	26646 7590 04/11/2007 KENYON & KENYON LLP			· EXAMINER		
	ONE BROADY			PALABRICA, RICARDO J		
	NEW YORK, NY 10004			ART UNIT	PAPER NUMBER	
				3663		
l	SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
	3 MO	PATA	04/11/2007	PAP	PER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Comme		10/574,050	BELVEGUE ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Rick Palabrica	3663			
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
	☐ This action is FINAL. 2b) ☐ This action is non-final.					
Dispositi	on of Claims					
4) ☐ Claim(s) 9-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 9-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) 🔲 Notico 3) 🔯 Inforn	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) 'No(s)/Mail Date 3/29/06.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 9-16 are rejected under 35 U.S.C. 102(b) as being anticipated by any one of Aoyama (U.S. 5,008,070) or Koyama et al. (U.S. 5,207,979) or Ogiya (U.S. 5,198,186), who each disclose a fuel assembly with first and second nuclear fuel rods containing gadolinium as burnable poison, wherein the weight content of gadolinium in the second rods is greater than that in the first rods.

Aoyama discloses, for example, in Fig. 10, a first nuclear fuel rods, G2, having a 3.5 weight % gadolinium, and second fuel rods, G1, having a 4.5 weight % gadolinium.

Koyama et al. disclose, for example, in Figs. 15 and 16, a first nuclear fuel rods, G4, having a 4.0 weight % gadolinium, and second fuel rods, G3, having a 5.0 weight % gadolinium.

Ogiya discloses in Fig. 2, a first nuclear fuel rods, i.e., rods 17, having a 4.0 weight % gadolinium, and second fuel rods, i.e., rods 16, having a 5.0 wt % gadolinium.

Note that the gadolinium weight content of the first nuclear fuel rods that is recited in claim 9, i.e., a content greater than 2%, means above 2% up to and

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including infinite%. This range in claim 9 encompasses the gadolinium weight contents recited in claims 10-16.

Any one of the above references anticipates the gadolinium weight content of the first nuclear fuel rods because they each disclose a weight content for said rods that falls within the claimed ranges. See MPEP 2131.03, which states:

"[W]hen, as by a recitation of ranges or otherwise, a claim covers several compositions, the claim is 'anticipated' if one of them is in the prior art." Titanium Metals Corp. v. Banner, 778 F.2d 775, 227 USPQ 773.

The claims include a statement that is either essentially a method limitation or statement of intended or desired use, i.e., "for a pressurized water reactor." This clause, as well as other statements of intended use does not serve to patently distinguish the claimed structure over that of the reference, as long as the structure of the cited references is capable of performing the intended use. See MPEP 2111-2115.

See also MPEP 2114 that states:

A claim containing a "recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus" if the prior art apparatus teaches all the structural limitations of the claim. *Ex parte Masham*, 2 USPQ2d 1647.

Claims directed to apparatus must be distinguished from the prior art in terms of structure rather than function. *In re Danly*, 263 F.2d 844, 847, 120 USPQ 528, 531.

[A]pparatus claims cover what a device is, not what a device does." <u>Hewlett-Packard Co. v. Bausch & Lomb Inc.</u>, 15 USPQ2d 1525,1528.

As set forth in MPEP 2115, a recitation in a claim to the material or article worked upon does not serve to limit an apparatus claim.

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Any one of the systems in the cited references is capable of being used in the same manner and for the intended or desired use as the claimed invention. Note that it is sufficient to show that said capability exists, which is the case for the cited references.

Conclusion

- 2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. References C-F further illustrate prior art.
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rick Palabrica whose telephone number is 571-272-6880. The examiner can normally be reached on 6:00-4:30, Mon-Thurs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Keith can be reached on 571-272-6878. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RJP April 4, 2007

> RICARDO J. PALABRICA PRIMARY EXAMINER

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